

*On the Swimming-Bladder and Sexual Organs of the Murænoïd Fishes.* By PROF. KNER.

Professor Kner communicates the results of his investigation of the swimming-bladders and sexual organs of thirty-six species of eel-like fishes. The species examined belong to nineteen of Bleeker's genera, distributed through six families.

The swimming-bladder occurs, more or less developed, in all the examined species and genera of three families—namely the *Anguilloidei*, *Congroidei*, and *Ophisuridi*; whilst it is wanting in the other three families, viz. *Gymnothoracoidei*, *Ptyobranchoidei*, and *Symbranchii*.

The sexual organs are sometimes symmetrical, and sometimes the reverse; in the former case they sometimes show the same structure, resembling that of our common eel, in all the specimens examined, and therefore, as in that species, leave the determination of the sex uncertain, but sometimes exhibit differences of structure in different individuals; so that many species decidedly have the sexes separate. The latter result was also obtained by the examination of several species with unsymmetrical sexual organs, whilst others left doubts upon this point. In a species of the family *Symbranchii* (*Ophisternon bengalense* = *Symbranchus bengalensis*, Bleek.), however, there was on one side a closed ovary filled with ova 1 line in diameter, and on the other side a lobate glandular organ, longer than the ovary, and exactly resembling the testes of *Petromyzon* in appearance. As, however, no spermatozoids could be detected, even under the microscope, the occurrence of hermaphroditism in this case is not strictly proved, although it certainly seems very probable.—*Bericht der Akad. der Wiss. in Wien*, December 14, 1865, p. 207.

*Annelida and Turbellaria of Guernsey.* By E. RAY LANKESTER.

The following is a list of the species of Annelida and Turbellaria obtained by the Dredging-Committee of the British Association last summer, off Guernsey and the neighbouring islands. Some of the species obtained have yet to be identified.

TURBELLARIA.

1. *Leptoplana subauriculata*, Johnston. Firman Bay.
2. — *flexilis*, Johnston. Firman Bay.
3. *Eurylepta cornuta*, Müller. Herm.
4. *Convoluta paradoxa*, Ærsted. Passim.
5. *Astemma rufifrons*, Ærsted. Guernsey.
6. *A. filiformis*, Johnston. Guernsey.
7. *Cephalothrix lineatus*, Ærsted. Guernsey.
8. *Tetrastemma varicolor*, Dalyell. Guernsey.
9. — *variegatum*, Dalyell. Guernsey.
10. *Borlasia olivacea*, Johnston. Guernsey.
11. — *octoculata*, Johnston. Guernsey.
12. *Ommatoplea rosea*, Müller. Guernsey.
13. — *alba*, Thompson. Guernsey.
14. — *melanocephala*, Johnston. Guernsey.
15. — *pulchra*, Johnston. Guernsey.